

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (cancelled)

2. (currently amended) An isolated DNA molecule having a nucleotide sequence wherein adenine is in nucleotide position 307 of the open reading frame instead of guanine in SEQ ID NO: 12. ~~in accordance with FIG. 1~~

Claim 3 (cancelled)

4. (currently amended) An isolated DNA molecule which is complementary to the nucleotide sequence of claim 2 or SEQ ID NO: 12.

Claim 5 (cancelled)

6. (currently amended) An isolated DNA molecule according to claim 2 with a ~~threonine~~ thymine in nucleotide position 229.

7. (currently amended) A ~~portion~~ fragment of the isolated DNA molecule of claim 4 or 2, said ~~portion~~ fragment including the a nucleotide sequence that distinguishes *E. coli* colonization resistant swine from sensitive swine.

8. (new) A probe to detect if the nucleotide at position 307 of the open reading frame of the alpha (1,2) fucosyltransferase gene 1 in swine is guanine.

9. (new) A probe to detect if the nucleotide at position 307 of the open reading frame of the alpha (1,2) fucosyltransferase gene 1 in swine is adenine.

10. (new) An isolated DNA molecule including polynucleotides that are in linkage disequilibrium in chromosomes with the DNA molecule having adenine in nucleotide position 307 of the open reading frame of SEQ ID NO: 12.

11. (new) Amplified fragments of FUT1 produced by restriction enzymes CfoI (A) and ACII (B).

New matter?